



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

Internet: ct.gov/csc

Daniel F. Caruso
Chairman

March 21, 2011

Douglas L. Culp, Real Estate Consultant
New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: **EM-CING-107-110225** - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 617 South Orange Center Road, Orange, Connecticut.

Dear Mr. Culp:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

- Any deviation from the proposed modification as specified in this notice and supporting materials with Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Not less than 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration;

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated February 21, 2011. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Very truly yours,

Linda Roberts
Executive Director

LR/CDM/laf

c: The Honorable James M. Zeoli, First Selectman, Town of Orange
Paul Dinice, Zoning Enforcement Officer, Town of Orange



CONNECTICUT SITING COUNCIL
Affirmative Action / Equal Opportunity Employer



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

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Daniel F. Caruso
Chairman

March 7, 2011

The Honorable James M. Zeoli
First Selectman
Town of Orange
Town Hall
617 Orange Center Road
Orange, CT 06477-2423

RE: **EM-CING-107-110225** - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 617 South Orange Center Road, Orange, Connecticut.

Dear First Selectman Zeoli:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

If you have any questions or comments regarding this proposal, please call me or inform the Council by March 21, 2011.

Thank you for your cooperation and consideration.

Very truly yours,

Linda Roberts
Executive Director

LR/jbw

Enclosure: Notice of Intent

c: Paul Dinice, Zoning Enforcement Officer, Town of Orange



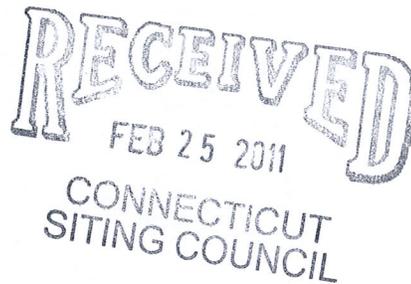
New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 463-5511
Fax: (860) 513-7190

Douglas L. Culp
Real Estate Consultant

HAND DELIVERED

February 21, 2011

Ms. Linda Roberts
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051



Re: New Cingular Wireless PCS, LLC notice of intent to modify an existing tele-communications facility located at 617 South Orange Center Road Orange, CT (owner Town of Orange)

Dear Ms. Roberts:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System ("UMTS") and/or Long Term Evolution ("LTE") capabilities, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC ("AT&T") plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of the municipality in which the affected cell site is located.

UMTS technology offers services to mobile computer and phone users anywhere in the world. Based on the Global System for Mobile ("GSM") communication standard, UMTS is the planned worldwide standard for mobile users. UMTS, fully implemented, gives computer and phone users high-speed access to the Internet as they travel. They have the same capabilities even when they roam, through both terrestrial wireless and satellite transmissions.

LTE is a new high-performance air interface for cellular mobile communications. It is the last step toward the 4th generation (4G) of radio technologies, designed to increase the capacity and speed of mobile telephone networks.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in AT&T's operations at the site. Also included is documentation of the

structural sufficiency of the tower to accommodate the revised antenna configuration.

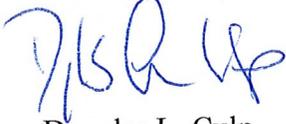
The changes to the facility do not constitute modifications as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. The height of the overall structure will be unaffected.
2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound other than some enlarged equipment pads as may be noted in the attachments.
3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.
4. Radio frequency power density may increase due to use of one or more GSM channel for UMTS transmissions. Moreover, LTE will utilize additional radio frequencies newly-licensed by the FCC for cellular mobile communications. However, the changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, New Cingular Wireless respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 463-5511 with questions concerning this matter. Thank you for your consideration.

Sincerely,



Douglas L. Culp
Real Estate Consultant

Attachments

**NEW CINGULAR WIRELESS PCS, LLC
Equipment Modification**

617 South Orange Center Road Orange, CT
Site Number 5101
Exempt Mod 7/06

Tower Owner/Manager: Town of Orange

Equipment configuration: Monopole

Current and/or approved: Six Powerwave antennas @ 177 ft
Six TMA's @ 177 ft
Twelve runs 1 5/8 inch coax to 177 ft
Outdoor cabinets on existing concrete pad

Planned Modifications: Retain existing antennas, TMA's and coax
Install three LTE KMW14-65 antennas or equivalent @ 177 ft
Install six remote radio heads and three surge arrestors @ 177 ft
Install one fiber and two DC power cables to @ 177 ft
Install one new outdoor cabinet and surge suppressor on H-Frame
on existing concrete pad

Power Density:

Worst-case calculations for existing wireless operations at the site, using standard parameters for other carriers, indicate a radio frequency electromagnetic radiation power density, measured at ground level beside the Monopole, of approximately 39.1 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density following proposed modifications would be approximately 40.3 % of the standard.

Existing

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users							33.62
AT&T UMTS	177	1900 Band	1	500	0.0057	1.0000	0.57
AT&T GSM	177	1900 Band	3	427	0.0147	1.0000	1.47
AT&T GSM	177	880 - 894	6	296	0.0204	0.5867	3.47
Total							39.1%

* Data for other users are from Siting Council records.

Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users							33.62
AT&T UMTS	177	1900 Band	1	500	0.0057	1.0000	0.57
AT&T GSM	177	1900 Band	3	427	0.0147	1.0000	1.47
AT&T GSM	177	880 - 894	6	296	0.0204	0.5867	3.47
AT&T LTE	177	740 - 746	1	500	0.0057	0.4933	1.16
Total							40.3%

* Data for other users are from Siting Council records.

Structural information:

The attached structural analysis demonstrates that the monopole and foundation have adequate structural capacity to accommodate the proposed modifications. (GPD Assoc., dated 1-25-11)

PROJECT INFORMATION

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS
 SOUTH ORANGE CENTER ROAD
 ORANGE, CT 06477
 LATITUDE: 41° 15' 19.98" N
 LONGITUDE: -73° 0' 39.2" W
 JURISDICTION: NATIONAL, STATE & LOCAL CODES OR ORDINANCES
 CURRENT USE: TELECOMMUNICATIONS FACILITY
 PROPOSED USE: TELECOMMUNICATIONS FACILITY
 NOC# 866-915-5600



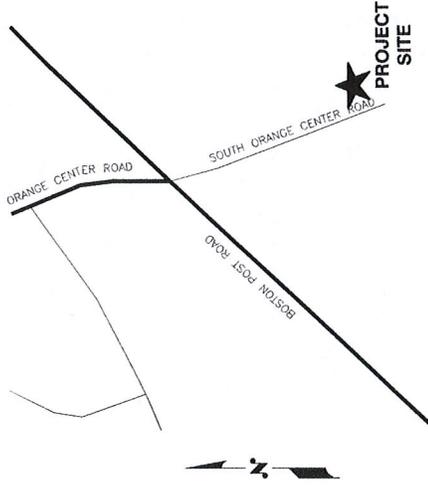
SITE NUMBER: CT5101
SITE NAME: ORANGE SOUTH

DRAWING INDEX

	REV
T-1 TITLE SHEET	1
GN-1 GENERAL NOTES	1
A-1 COMPOUND & EQUIPMENT PLAN	1
A-2 ANTENNA LAYOUT AND ELEVATION	1
A-3 DETAILS	1
G-1 PLUMBING DIAGRAM & DETAILS	1

VICINITY MAP

DIRECTIONS TO SITE:
 HEAD NORTHEAST ON ENTERPRISE DR TOWARD CAPITAL BLVD. 0.3 MILES. TURN LEFT AT CAPITAL BLVD. 0.3 MILES. TURN LEFT AT WEST ST. 0.3 MILES. TURN LEFT TO MERGE ONTO I-91 S TOWARD NEW HAVEN. 9.8 MILES. TAKE EXIT 77 FOR CT-15 S/W CROSS PKWY. 0.4 MILES. MERGE ONTO I-91 S. TAKE EXIT 10 FOR CT-15 S. TURN RIGHT AT ORANGE CENTER RD. DESTINATION WILL BE TURNPIKE TOWARD ORANGE. 0.7 MILES. TURN RIGHT AT ORANGE CENTER RD. DESTINATION WILL BE ON THE LEFT. 3.5 MILES.



GENERAL NOTES

- THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN PERMISSION OF AT&T IS PROHIBITED. THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

72 HOURS



BEFORE YOU DIG



CALL TOLL FREE 800-922-4455

UNDERGROUND SERVICE ALERT

Hudson
 Design Group
 100 WASHINGTON STREET
 MAUNDING COMMONS, SUITE 200
 N. ANDOVER, MA 01845
 TEL: 978-555-5553
 FAX: 978-555-5558



22 KEEWAYDIN DRIVE
 SALEM, NH 03079

SITE NUMBER: CT5101
SITE NAME: ORANGE SOUTH
 SOUTH ORANGE CENTER ROAD
 ORANGE, CT 06477
 NEW HAVEN COUNTY



500 ENTERPRISE DRIVE, SUITE 3A
 ROCKY HILL, CT 06067



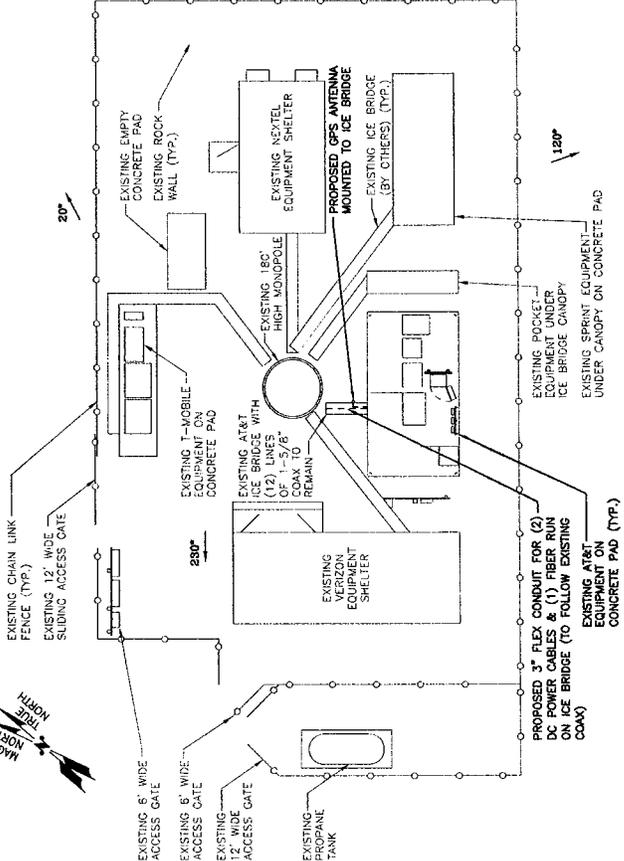
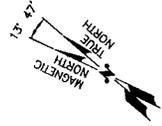
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0	07/15/11	ISSUED FOR REVIEW				

SCALE: AS SHOWN

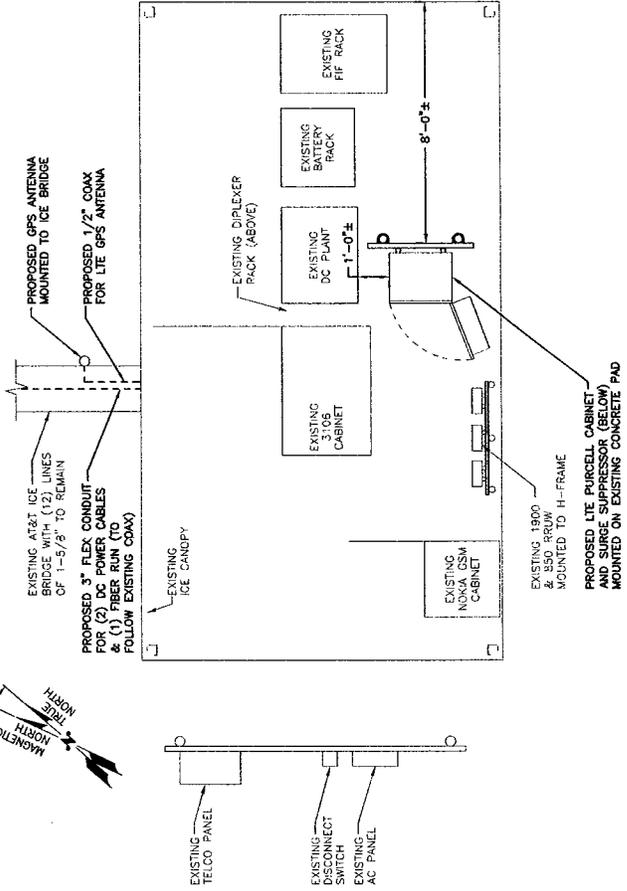
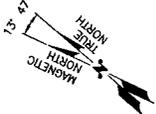
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NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT HAS BEEN DETERMINED PRIOR TO CONSTRUCTION.

NOTE:
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.



COMPOUND PLAN
SCALE: 1/8"=1'-0"



EQUIPMENT PLAN
SCALE: 1/2"=1'-0"

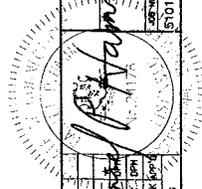
Hudson Design Group, LLC
180 WILSON DRIVE
MILWAUKEE, WISCONSIN 53101
TEL: 773.552.5833
FAX: 773.552.5838

SIAT Communications

22 KEEWATON DRIVE
SALEM, NH 03079

SITE NUMBER: CT5101
SITE NAME: ORANGE SOUTH
SOUTH ORANGE, CENTER ROAD
ORANGE, CT 06477
NEW HAVEN COUNTY

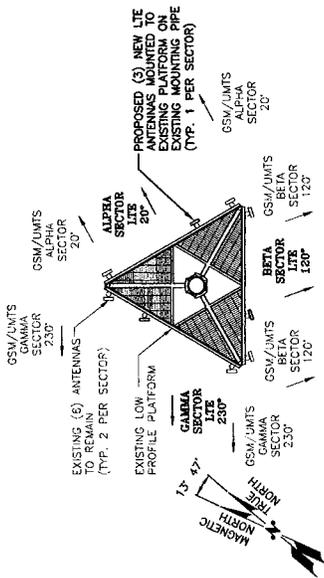
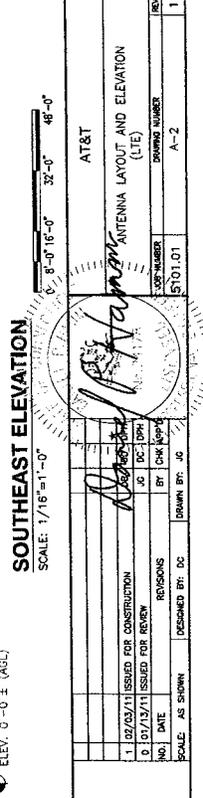
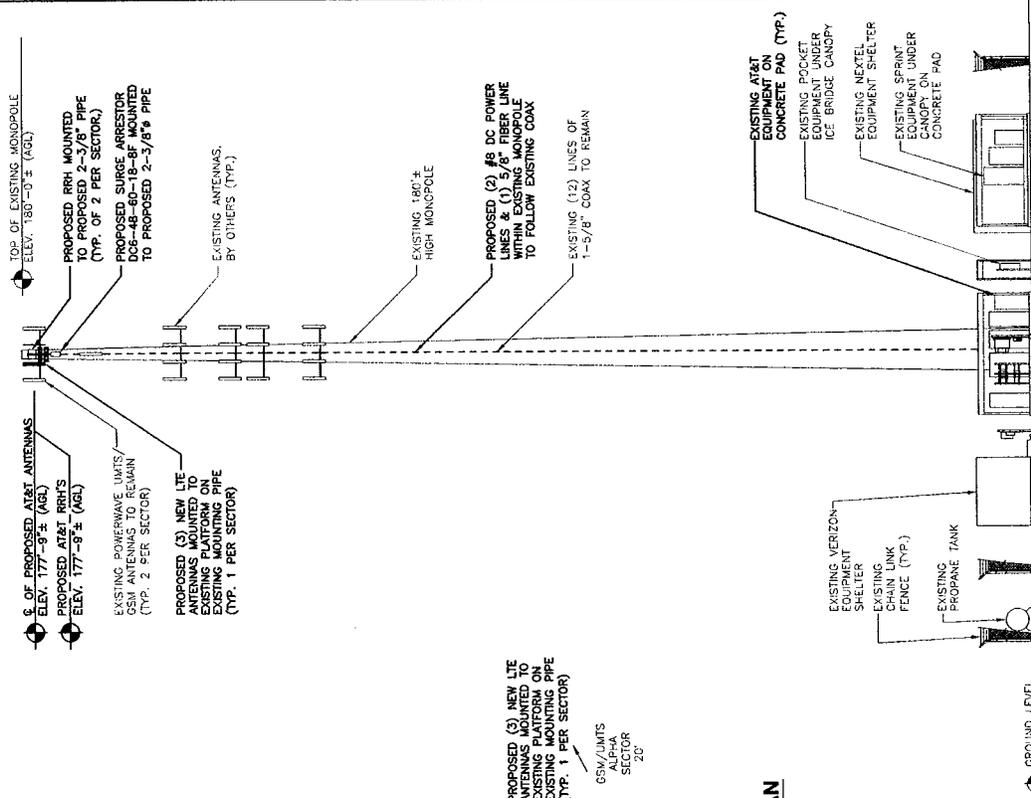
at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067



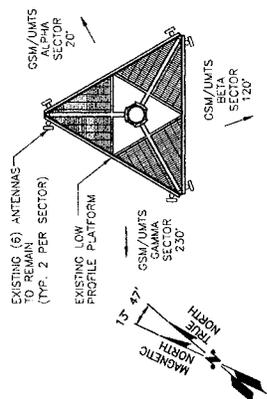
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NOTE:
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.



PROPOSED LTE ANTENNA PLAN
SCALE: N.T.S.



EXISTING GSM/UMTS ANTENNA PLAN
SCALE: N.T.S.

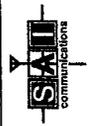
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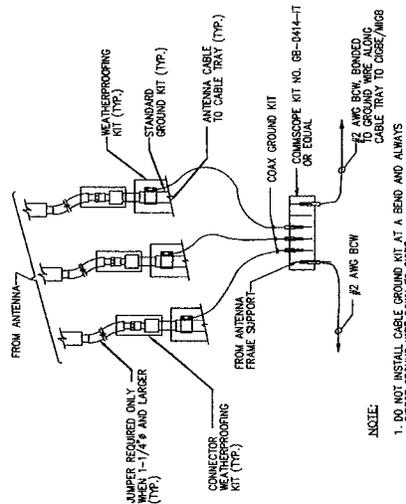
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NEW HAVEN COUNTY

22 KEEWYDIN DRIVE
SALEM, NH 03079

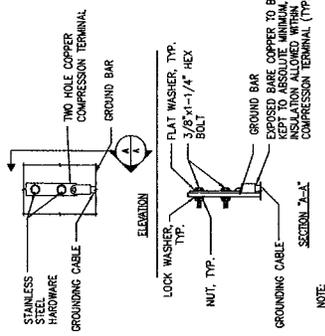


1500 GARDNER DRIVE
SALEM, NH 03079
TEL: 603-883-5553
FAX: 603-883-5558

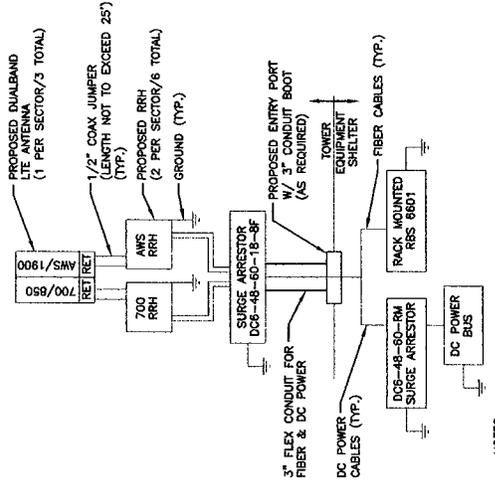
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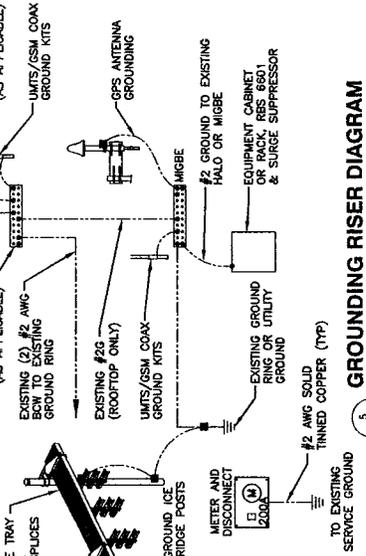
GROUND WIRE TO GROUND BAR CONNECTION DETAIL
 1 N.T.S.



TYPICAL GROUND BAR CONNECTION DETAIL
 2 N.T.S.

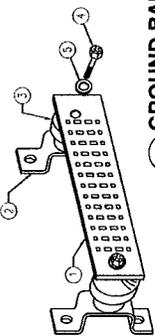


PLUMBING DIAGRAM
 3 N.T.S.



GROUNDING RISER DIAGRAM
 5 N.T.S.

WIRELESS SOLUTIONS INC.	
NO.	DESCRIPTION
1	HUG-0420-S SOLID GND. BAR (20\" x 4\" x 1/4\")
2	WALL MTS. BRKT.
3	INSULATORS
4	5/8\" - 11\" H.H.C.S.
4	5/8 LOCKWASHER



GROUND BAR - DETAIL
 4 N.T.S.

EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN OVERLAP OF 3\" AND BE SECURED AT EACH END WITH TWO LOCKWASHERS AND NUTS TO DESTABILIZE.

SECTION '2' - SURGE PRODUCERS

CABLE ENTRY PORTS (MATCH PLATES) (#2)
 CABLE ENTRY FRAMES (IF AVAILABLE) (#2)
 TOWER GROUND BAR
 COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
 +24V POWER SUPPLY RETURN BAR (#2)
 RECIPER FRAMES.

SECTION 'A' - SURGE ABSORBERS

INTERIOR GROUND RING (#2)
 EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2)
 METALLIC COLD WATER PIPE (IF AVAILABLE) (#2)
 BUILDING STEEL (IF AVAILABLE) (#2)

Hudson Design Group
 590 SACCONDO DRIVE SUITE 2-01
 HANNOVER, NH 03185
 TEL: 603-88-8553
 FAX: 603-88-8556

SAI Communications
 22 KEEWAYDIN DRIVE
 SALEM, NH 03079

at&t
 500 ENTERPRISE DRIVE, SUITE 3A
 ROCKY HILL, CT 08067

AT&T
 PLUMBING DIAGRAM & DETAILS
 (LIE)

NO. DATE REVISIONS DESIGNED BY: DC DRAWN BY: JS
 1 02/09/11 ISSUED FOR CONSTRUCTION JC DC/DM
 0 07/15/11 ISSUED FOR REVIEW JC DC/DM

SCALE: AS SHOWN

PROJECT NUMBER: S101.01
 DRAWING NUMBER: G-1

SUMMARY & RESULTS

The purpose of this analysis was to verify that the existing structure is capable of carrying the proposed loading configuration as specified by AT&T to Hudson Design Group. This report was commissioned by Mr. Andrey Tsikanovsky of Hudson Design Group.

The proposed (6) fiber lines installed inside the 3" conduit is assumed to be internal to the monopole.

TOWER SUMMARY AND RESULTS

Member	Capacity	Results
Monopole	76.6%	Pass
Base Plate	46.2%	Pass
Anchor Bolts	76.1%	Pass
Foundation	25.2%	Pass

ANALYSIS METHOD

RISA Tower (Version 5.4.2.0), a commercially available software program, was used to create a three-dimensional model of the tower and calculate primary member stresses for various dead, live, wind, and ice load cases. Selected output from the analysis is included in Appendix B. The following table details the information provided to complete this structural analysis. This analysis is solely based on this information and being provided without the benefit of a site visit.

DOCUMENTS PROVIDED

Document	Remarks	Source
Construction Drawings	AT&T Site #: CT5101, dated 1/13/11	HDG
Previous Structural Analysis	GPD Associates Job # 2010268.55, dated 5/14/10	Siterra
Foundation Investigation	WEI Project # 2010-1056, dated 3/31/10	Siterra
Geotechnical Report	WEI Project # 2010-1056, dated 3/31/10	Siterra

ASSUMPTIONS

This structural analysis is based on the theoretical capacity of the members and is not a condition assessment of the monopole. This analysis is from information supplied, and therefore, its results are based on and are as accurate as that supplied data. GPD has made no independent determination, nor is it required to, of its accuracy. The following assumptions were made for this structural analysis.

1. The monopole shaft sizes and shape are considered accurate as supplied. The material grade is as per data supplied and/or as assumed and as stated in the materials section.
2. The antenna configuration is as supplied and/or as modeled in the analysis. It is assumed to be complete and accurate. All antennas, mounts, coax and waveguides are assumed to be properly installed and supported as per manufacturer requirements
3. Some assumptions are made regarding antennas and mount sizes and their projected areas based on best interpretation of data supplied and of best knowledge of antenna type and industry practice.
4. All mounts, if applicable, are considered adequate to support the loading. No actual analysis of the mount(s) is performed. This analysis is limited to analyzing the tower only.
5. The soil parameters are as per data supplied or as assumed and stated in the calculations. If no data is available, the foundation system is not verified.
6. The tower and structures have been properly maintained in accordance with TIA Standards and/or with manufacturer's specifications.
7. All welds and connections are assumed to develop at least the member capacity, unless determined otherwise and explicitly stated in this report.
8. All existing loading was obtained from the most recent previous structural analysis by GPD Associates Job # 2010268.55, dated 5/14/10, site photos, and the provided construction drawings, and is assumed to be accurate.
9. All proposed coax is assumed to be internal to the monopole.
10. Foundations are properly designed and constructed to resist the original design loads indicated in the documents provided.
11. No information was available for the structural reinforcement of the foundation. It has been assumed adequate based on the soil interaction of the foundation.
12. Loading interpreted from photos is accurate to $\pm 5'$ AGL, antenna size accurate to ± 3.3 sf, and coax equal to the number of existing antennas without reserve.

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and GPD Associates should be allowed to review any new information to determine its effect on the structural integrity of the tower.

DISCLAIMER OF WARRANTIES

GPD ASSOCIATES has not performed a site visit to the tower to verify the member sizes or antenna/coax loading. If the existing conditions are not as represented on the tower elevation contained in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the tower or foundation. This report does not replace a full tower inspection. The tower and foundations are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by GPD ASSOCIATES in connection with this Structural Analysis are limited to a computer analysis of the tower structure and theoretical capacity of its main structural members. All tower components have been assumed to only resist dead loads when no other loads are applied. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

GPD ASSOCIATES does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing tower. GPD ASSOCIATES provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines to the structure.

It is the owner's responsibility to determine the amount of ice accumulation, if any, that should be considered in the structural analysis.

The attached sketches are a schematic representation of the analyzed tower. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from GPD ASSOCIATES, but are beyond the scope of this report.

Miscellaneous items such as antenna mounts, etc. have not been designed or detailed as a part of our work. We recommend that material of adequate size and strength be purchased from a reputable tower manufacturer.

GPD ASSOCIATES makes no warranties, expressed and/or implied in connection with this report and disclaims any liability arising from material, fabrication, and erection of this tower. GPD ASSOCIATES will not be responsible whatsoever for, or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of GPD ASSOCIATES pursuant to this report will be limited to the total fee received for preparation of this report.

APPENDIX A

Tower Analysis Summary Form

Tower Analysis Summary Form

General Info	
Site Name	ORANGE TRANSFER STATION
Site Number	CT15701 (16226)
FA Number	10071197
Date of Analysis	1/25/2011
Company Performing Analysis	GPD

Tower Info		Description	Date
Tower Type (G, SST, MP)	MP		
Tower Height (top of steel AGL)	160'		
Tower Manufacturer	Robm		
Tower Model	n/a		
Tower Design	n/a		
Foundation Design	n/a		
Geotech Report	WEL Project # 2010-1056		3/31/2010
Tower Mapping	n/a		
Previous Structural Analysis	GPD Associates, Job # 2010268,55		5/14/2010
Foundation Mapping	WEL Project # 2010-1056		3/31/2010

Steel Yield Strength (ksi)	
Pole	65
Base Plate	60
Anchor Rods	75

The information contained in this summary report is not to be used independently from the PE stamped tower analysis.

Design Parameters	
Design Code Used	TIA/EIA-222-F
Location of Tower (County, State)	New Haven, CT
Basic Wind Speed (mph)	85-fastest
Ice Thickness (in)	0.5
Structure Classification (I, II, III)	
Exposure Category (B, C, D)	
Topographic Category (1 to 5)	

Analysis Results (% Maximum Usage)	
Existing/Reserved + Future + Proposed Condition	
Tower	76.6%
Tower Base	76.1%
Foundation	25.2%

Existing / Reserved Loading		Antenna				Mount				Transmission Line					
Antenna Owner	Mount Height (ft)	Antenna CL (ft)	Quantity	Type	Manufacturer	Model	Azimuth	Quantity	Manufacturer	Type	Attachment Internal/External	Quantity	Model	Size	Attachment Internal/External
AT&T Mobility	177	177	6	Panel	Powertwave	7770.00		1	Unknown	13' LP Platform	Internal	9	Unknown	1-5/8"	Internal
AT&T Mobility	177	177	3	Panel	Unknown	4' x 1.5' Panel				on same mount behind the antennas					
AT&T Mobility	177	177	6	TMA	Powertwave	TMA									
Unknown	165	165	3	Panel	Unknown	5' Panel				Pipe mounted	External	6	Unknown	1-5/8"	External
T-Mobile	148	148	6	Panel	RFS	APX18PV-18PVL		1	Unknown	13' LP Platform	Internal	12	Unknown	1-5/8"	Internal
T-Mobile	148	148	6	TMA	Powertwave	LGP 21401				behind the antennas					
Nexel	137	137	12	Panel	Decibel	844645VTASX		1	Unknown	13' LP Platform	Internal	12	Unknown	1-5/8"	Internal
Sprint	125	127	6	Panel	Decibel	DB880H65T2E-4I		1	Unknown	13' Platform	Internal	6	Unknown	1-5/8"	Internal
Cleanwire	125	127	3	Panel	Argus	LLPX10R	50/150/250			on the existing mount	Internal	6	9207	5/16"	Internal
Cleanwire	125	127	3	RRH	Samsung	FDD R5 RRH				on the existing mount	Internal	1	RET Cable	7/4"	Internal
Cleanwire	125	127	2	Dish	Dragonwave	A-ANT-25G-2-C	50/150			on the existing mount	Internal	2	LDP4-50A	1/2"	Internal
Cleanwire	125	127	2	DUO	Dragonwave	Horizon DUO				on the existing mount					
Verizon	117	117	4	Panel	Decibel	DB844G4ZAXY		1	Unknown	13' Platform	Internal	6	Unknown	1-5/8"	Internal
Verizon	117	117	6	Panel	Decibel	950F40T2E-M 2				on the same mount	Internal	6	Unknown	1-5/8"	Internal
Verizon	117	117	3	Panel	Antel	BYA-700634CF				on the same mount	Internal	3	LDP7-50A	1-5/8"	Internal
Verizon	117	117	2	Panel	Antel	LPA-800634CF				on the same mount	Internal	3	LDP7-50A	1-5/8"	Internal
Sprint	50	50	1	GPS	Unknown	GPS Unit		1	Unknown	2' Standoff	Internal	1	Unknown	1/2"	Internal

Note: The existing 4x1.5' Panel antennas to be replaced by the proposed loading and was not considering in this analysis.

Proposed Loading		Antenna				Mount				Transmission Line					
Antenna Owner	Mount Height (ft)	Antenna CL (ft)	Quantity	Type	Manufacturer	Model	Azimuth	Quantity	Manufacturer	Type	Attachment Internal/External	Quantity	Model	Size	Attachment Internal/External
AT&T Mobility	177	177	3	Panel	KIMW	AM-X-CW-14-45-00T-RET				on the existing mount	Internal	1	Unknown	3" Conduit	Internal
AT&T Mobility	176	178	6	RRH	Ericsson	RRUS 11 - Dual PA RRU RRRHs				collar mount	Inside Conduit	6	Unknown	Fiber Lines	Internal
AT&T Mobility	176	174	1	Fiber/Power	Raycap	DCS-48-90-18-8F				on same mount					

Note: The existing 4x1.5' Panel antennas to be replaced by the proposed loading and was not considering in this analysis.

Future Loading		Antenna				Mount				Transmission Line					
Antenna Owner	Mount Height (ft)	Antenna CL (ft)	Quantity	Type	Manufacturer	Model	Azimuth	Quantity	Manufacturer	Type	Attachment Internal/External	Quantity	Model	Size	Attachment Internal/External

APPENDIX B

RISA Tower Output File

RISATower GPD Associates 520 S. Main St. Akron, Ohio 44313 Phone: (330) 572-2100 FAX: (330) 572-2101	Job CT5101 (16326) Orange Transfer Station	Page 1 of 6
	Project 2011147.02	Date 11:34:24 01/25/11
	Client Hudson Design Group	Designed by aherkenhoff

Tower Input Data

There is a pole section.

This tower is designed using the TIA/EIA-222-F standard.

The following design criteria apply:

Tower is located in New Haven County, Connecticut.

Basic wind speed of 85 mph.

Nominal ice thickness of 0.5000 in.

Ice density of 56 pcf.

A wind speed of 74 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 50 mph.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.333.

Local bending stresses due to climbing loads, feedline supports, and appurtenance mounts are not considered.

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Total Number	C _A A _i		Weight plf
						No Ice	1/2" Ice	
LDF7-50A (1-5/8 FOAM)	A	No	Inside Pole	177.00 - 8.00	9	No Ice	0.00	0.82
LDF7-50A (1-5/8 FOAM)	A	No	CaAa (Out Of Face)	165.00 - 8.00	5	1/2" Ice	0.00	0.82
						No Ice	0.00	2.33
LDF7-50A (1-5/8 FOAM)	A	No	CaAa (Out Of Face)	165.00 - 8.00	1	1/2" Ice	0.20	0.82
						No Ice	0.30	2.33
LDF7-50A (1-5/8 FOAM)	B	No	Inside Pole	148.00 - 8.00	12	1/2" Ice	0.00	0.82
						No Ice	0.00	0.82
LDF7-50A (1-5/8 FOAM)	C	No	Inside Pole	137.00 - 8.00	12	1/2" Ice	0.00	0.82
						No Ice	0.00	0.82
LDF7-50A (1-5/8 FOAM)	C	No	Inside Pole	125.00 - 8.00	6	1/2" Ice	0.00	0.82
						No Ice	0.00	0.82
9207 (5/16 FOEM)	C	No	Inside Pole	125.00 - 8.00	6	1/2" Ice	0.00	1.00
						No Ice	0.00	1.00
RET Cable	C	No	Inside Pole	125.00 - 8.00	1	1/2" Ice	0.00	0.08
						No Ice	0.00	0.08
LDF4-50A (1/2 FOAM)	C	No	Inside Pole	125.00 - 8.00	2	1/2" Ice	0.00	0.15
						No Ice	0.00	0.15
LDF7-50A (1-5/8 FOAM)	B	No	Inside Pole	117.00 - 8.00	18	1/2" Ice	0.00	0.82
						No Ice	0.00	0.82
LDF4-50A (1/2 FOAM)	C	No	Inside Pole	50.00 - 8.00	1	1/2" Ice	0.00	0.15
						No Ice	0.00	0.15
3" Flex Conduit	A	No	Inside Pole	177.00 - 8.00	1	1/2" Ice	0.00	0.48
						No Ice	0.00	0.48
FIBER LINES	A	No	Inside Pole	177.00 - 8.00	6	1/2" Ice	0.00	0.04
						No Ice	0.00	0.04
Safety Line 3/8	C	No	CaAa (Out Of Face)	180.00 - 8.00	1	1/2" Ice	0.04	0.22
						No Ice	0.14	0.75

RISA Tower GPD Associates 520 S. Main St. Akron, Ohio 44313 Phone: (330) 572-2100 FAX: (330) 572-2101	Job CT5101 (16326) Orange Transfer Station	Page 2 of 6
	Project 2011147.02	Date 11:34:24 01/25/11
	Client Hudson Design Group	Designed by aherkenhoff

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A _A Front	C _A A _A Side	Weight	
			Horz	Lateral						
			Vert							
			ft	ft	°	ft	ft ²	ft ²	K	
(2) 7770.00 w/Mount Pipe	A	From Centroid-Le	4.00	0.00	0.0000	177.00	No Ice 1/2" Ice	6.58 7.21	4.94 5.86	0.08 0.13
(2) 7770.00 w/Mount Pipe	B	From Centroid-Le	4.00	0.00	0.0000	177.00	No Ice 1/2" Ice	6.58 7.21	4.94 5.86	0.08 0.13
(2) 7770.00 w/Mount Pipe	C	From Centroid-Le	4.00	0.00	0.0000	177.00	No Ice 1/2" Ice	6.58 7.21	4.94 5.86	0.08 0.13
AM-X-CW-14-65-00T-RET w/ Mount Pipe	A	From Centroid-Le	4.00	0.00	0.0000	177.00	No Ice 1/2" Ice	5.77 6.22	4.16 4.77	0.06 0.11
AM-X-CW-14-65-00T-RET w/ Mount Pipe	B	From Centroid-Le	4.00	0.00	0.0000	177.00	No Ice 1/2" Ice	5.77 6.22	4.16 4.77	0.06 0.11
AM-X-CW-14-65-00T-RET w/ Mount Pipe	C	From Centroid-Le	4.00	0.00	0.0000	177.00	No Ice 1/2" Ice	5.77 6.22	4.16 4.77	0.06 0.11
(2) RRUS 11 - Dual PA RRU	A	From Leg	0.50	0.00	0.0000	176.00	No Ice 1/2" Ice	2.94 3.17	1.25 1.41	0.06 0.07
(2) RRUS 11 - Dual PA RRU	B	From Leg	0.50	0.00	0.0000	176.00	No Ice 1/2" Ice	2.94 3.17	1.25 1.41	0.06 0.07
(2) RRUS 11 - Dual PA RRU	C	From Leg	0.50	0.00	0.0000	176.00	No Ice 1/2" Ice	2.94 3.17	1.25 1.41	0.06 0.07
6' x 2" Mount Pipe	A	From Leg	0.25	0.00	0.0000	176.00	No Ice 1/2" Ice	1.43 1.92	1.43 1.92	0.02 0.03
6' x 2" Mount Pipe	B	From Leg	0.25	0.00	0.0000	176.00	No Ice 1/2" Ice	1.43 1.92	1.43 1.92	0.02 0.03
6' x 2" Mount Pipe	C	From Leg	0.25	0.00	0.0000	176.00	No Ice 1/2" Ice	1.43 1.92	1.43 1.92	0.02 0.03
6' x 2" Mount Pipe	A	From Centroid-Le	4.00	0.00	0.0000	177.00	No Ice 1/2" Ice	1.43 1.92	1.43 1.92	0.02 0.03
6' x 2" Mount Pipe	B	From Centroid-Le	4.00	0.00	0.0000	177.00	No Ice 1/2" Ice	1.43 1.92	1.43 1.92	0.02 0.03
6' x 2" Mount Pipe	C	From Centroid-Le	4.00	0.00	0.0000	177.00	No Ice 1/2" Ice	1.43 1.92	1.43 1.92	0.02 0.03
DC6-48-60-18-8F	C	From Leg	0.50	0.00	0.0000	176.00	No Ice 1/2" Ice	1.27 1.46	1.27 1.46	0.02 0.04
(2) 21401 TMA	A	From Centroid-Le	4.00	0.00	0.0000	177.00	No Ice 1/2" Ice	1.29 1.45	0.36 0.48	0.01 0.02
(2) 21401 TMA	B	From	4.00	0.00	0.0000	177.00	No Ice	1.29	0.36	0.01

RISATower

GPD Associates
520 S. Main St.
Akron, Ohio 44313
Phone: (330) 572-2100
FAX: (330) 572-2101

Job	CT5101 (16326) Orange Transfer Station	Page	3 of 6
Project	2011147.02	Date	11:34:24 01/25/11
Client	Hudson Design Group	Designed by	aherkenhoff

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A ₁ Front ft ²	C _A A ₁ Side ft ²	Weight K
(2) 21401 TMA	C	Centroid-Le g	0.00 0.00		1/2" Ice	1.45	0.48	0.02
		From Centroid-Le g	4.00 0.00	0.0000	177.00	No Ice 1/2" Ice	1.29 1.45	0.36 0.48
5 s.f. Panel Antenna w/Mount Pipe	A	From Leg	1.00 0.00	0.0000	165.00	No Ice 1/2" Ice	5.24 5.07	4.20 5.07
5 s.f. Panel Antenna w/Mount Pipe	B	From Leg	1.00 0.00	0.0000	165.00	No Ice 1/2" Ice	5.24 5.07	4.20 5.07
5 s.f. Panel Antenna w/Mount Pipe	C	From Leg	1.00 0.00	0.0000	165.00	No Ice 1/2" Ice	5.24 5.07	4.20 5.07
(2) APX16PV-16PVL w/mount pipe	A	From Centroid-Le g	4.00 0.00	0.0000	148.00	No Ice 1/2" Ice	6.79 7.25	3.17 3.80
(2) APX16PV-16PVL w/mount pipe	B	From Centroid-Le g	4.00 0.00	0.0000	148.00	No Ice 1/2" Ice	6.79 7.25	3.17 3.80
(2) APX16PV-16PVL w/mount pipe	C	From Centroid-Le g	4.00 0.00	0.0000	148.00	No Ice 1/2" Ice	6.79 7.25	3.17 3.80
(2) LGP21401	A	From Centroid-Le g	4.00 0.00	0.0000	148.00	No Ice 1/2" Ice	0.00 0.00	0.23 0.31
(2) LGP21401	B	From Centroid-Le g	4.00 0.00	0.0000	148.00	No Ice 1/2" Ice	0.00 0.00	0.23 0.31
(2) LGP21401	C	From Centroid-Le g	4.00 0.00	0.0000	148.00	No Ice 1/2" Ice	0.00 0.00	0.23 0.31
6' x 2" Mount Pipe	A	From Centroid-Le g	4.00 0.00	0.0000	148.00	No Ice 1/2" Ice	1.43 1.92	1.43 1.92
6' x 2" Mount Pipe	B	From Centroid-Le g	4.00 0.00	0.0000	148.00	No Ice 1/2" Ice	1.43 1.92	1.43 1.92
6' x 2" Mount Pipe	C	From Centroid-Le g	4.00 0.00	0.0000	148.00	No Ice 1/2" Ice	1.43 1.92	1.43 1.92
PiROD 13' Low Profile Platform	C	None		0.0000	148.00	No Ice 1/2" Ice	15.70 20.10	15.70 20.10
(4) 844G45VTZASX w/Mount Pipe	A	From Centroid-Le g	4.00 0.00	0.0000	137.00	No Ice 1/2" Ice	7.71 8.44	5.63 6.73
(4) 844G45VTZASX w/Mount Pipe	B	From Centroid-Le g	4.00 0.00	0.0000	137.00	No Ice 1/2" Ice	7.71 8.44	5.63 6.73
(4) 844G45VTZASX w/Mount Pipe	C	From Centroid-Le g	4.00 0.00	0.0000	137.00	No Ice 1/2" Ice	7.71 8.44	5.63 6.73
PiROD 13' Low Profile Platform	C	None		0.0000	137.00	No Ice 1/2" Ice	15.70 20.10	15.70 20.10
(2) DB980H65T2E-M w/Mount Pipe	A	From Centroid-Le g	4.00 0.00	30.0000	125.00	No Ice 1/2" Ice	4.27 4.86	3.86 4.95

RISA Tower GPD Associates 520 S. Main St. Akron, Ohio 44313 Phone: (330) 572-2100 FAX: (330) 572-2101	Job	CT5101 (16326) Orange Transfer Station	Page	4 of 6
	Project	2011147.02	Date	11:34:24 01/25/11
	Client	Hudson Design Group	Designed by	aherkenhoff

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{A/A}		Weight	
			Horz	Lateral			Front	Side		
			ft	ft	°	ft	ft ²	ft ²	K	
(2) DB980H65T2E-M w/ Mount Pipe	B	From	4.00		0.0000	125.00	No Ice	4.27	3.86	0.03
		Centroid-Le g	0.00	2.00			1/2" Ice	4.86	4.95	0.07
(2) DB980H65T2E-M w/ Mount Pipe	C	From	4.00		-15.0000	125.00	No Ice	4.27	3.86	0.03
		Centroid-Le g	0.00	2.00			1/2" Ice	4.86	4.95	0.07
LLPX310R w/ Mount Pipe	A	From	4.00		50.0000	125.00	No Ice	5.40	3.59	0.07
		Centroid-Le g	0.00	2.00			1/2" Ice	5.86	4.19	0.12
LLPX310R w/ Mount Pipe	B	From	4.00		30.0000	125.00	No Ice	5.40	3.59	0.07
		Centroid-Le g	0.00	2.00			1/2" Ice	5.86	4.19	0.12
LLPX310R w/ Mount Pipe	C	From	4.00		20.0000	125.00	No Ice	5.40	3.59	0.07
		Centroid-Le g	0.00	2.00			1/2" Ice	5.86	4.19	0.12
FDD R6 RRH	A	From	4.00		50.0000	125.00	No Ice	1.80	0.78	0.03
		Centroid-Le g	0.00	2.00			1/2" Ice	1.99	0.92	0.04
FDD R6 RRH	B	From	4.00		30.0000	125.00	No Ice	1.80	0.78	0.03
		Centroid-Le g	0.00	2.00			1/2" Ice	1.99	0.92	0.04
FDD R6 RRH	C	From	4.00		20.0000	125.00	No Ice	1.80	0.78	0.03
		Centroid-Le g	0.00	2.00			1/2" Ice	1.99	0.92	0.04
Horizon DUO	A	From	4.00		50.0000	125.00	No Ice	0.55	0.34	0.01
		Centroid-Le g	0.00	2.00			1/2" Ice	0.65	0.43	0.01
Horizon DUO	B	From	4.00		30.0000	125.00	No Ice	0.55	0.34	0.01
		Centroid-Le g	0.00	2.00			1/2" Ice	0.65	0.43	0.01
Valmont 13' Platform w/o rails (GPD)	C	None			0.0000	125.00	No Ice	24.80	24.80	1.50
							1/2" Ice	26.20	26.20	2.50
(2) DB844G45ZAXY w/ Mount Pipe	A	From	4.00		0.0000	117.00	No Ice	7.71	5.63	0.05
		Centroid-Le g	0.00	0.00			1/2" Ice	8.44	6.73	0.11
BXA-70063/4CF w/ mount pipe	A	From	4.00		0.0000	117.00	No Ice	5.17	3.31	0.02
		Centroid-Le g	0.00	0.00			1/2" Ice	5.56	3.85	0.06
(2) DB950F40T2E-M w/ Mount Pipe	A	From	4.00		0.0000	117.00	No Ice	6.89	6.29	0.05
		Centroid-Le g	0.00	0.00			1/2" Ice	7.56	7.40	0.10
(2) LPA-80063/4CF w/ mount pipe	B	From	4.00		-20.0000	117.00	No Ice	7.26	7.27	0.04
		Centroid-Le g	0.00	0.00			1/2" Ice	7.73	7.98	0.10
BXA-70063/4CF w/ mount pipe	B	From	4.00		-20.0000	117.00	No Ice	5.17	3.31	0.02
		Centroid-Le g	0.00	0.00			1/2" Ice	5.56	3.85	0.06
(2) DB950F40T2E-M w/ Mount Pipe	B	From	4.00		-20.0000	117.00	No Ice	6.89	6.29	0.05
		Centroid-Le g	0.00	0.00			1/2" Ice	7.56	7.40	0.10
(2) DB844G45ZAXY w/ Mount Pipe	C	From	4.00		0.0000	117.00	No Ice	7.71	5.63	0.05
		Centroid-Le g	0.00	0.00			1/2" Ice	8.44	6.73	0.11
BXA-70063/4CF w/ mount pipe	C	From	4.00		0.0000	117.00	No Ice	5.17	3.31	0.02
		Centroid-Le g	0.00	0.00			1/2" Ice	5.56	3.85	0.06
(2) DB950F40T2E-M	C	From	4.00		0.0000	117.00	No Ice	6.89	6.29	0.05

RISATower GPD Associates 520 S. Main St. Akron, Ohio 44313 Phone: (330) 572-2100 FAX: (330) 572-2101	Job CT5101 (16326) Orange Transfer Station	Page 5 of 6
	Project 2011147.02	Date 11:34:24 01/25/11
	Client Hudson Design Group	Designed by aherkenhoff

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	C _A A ₁ Front	C _A A ₁ Side	Weight
			ft ft ft	°	ft	ft ²	ft ²	K
w/Mount Pipe		Centroid-Le g	0.00 0.00		1/2" Ice	7.56	7.40	0.10
Valmont 13' Platform w/o rails (GPD)	C	None		0.0000	117.00	No Ice 1/2" Ice	24.80 26.20	1.50 2.50
GPS	C	From Face	2.00 0.00 0.00	0.0000	50.00	No Ice 1/2" Ice	0.17 0.24	0.00 0.00
2'-0" - STANDOFF	C	From Face	1.00 0.00 0.00	0.0000	50.00	No Ice 1/2" Ice	1.36 2.45	0.02 0.04

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight
				ft	°	°	ft	ft	ft ²	K
A-ANT-23G-2-C	A	Paraboloid w/o Radome	From Centroid -Leg	4.00 0.00 2.00	50.0000		125.00	2.17	No Ice 1/2" Ice	3.72 4.01 0.01 0.02
A-ANT-23G-2-C	B	Paraboloid w/o Radome	From Centroid -Leg	4.00 0.00 2.00	30.0000		125.00	2.17	No Ice 1/2" Ice	3.72 4.01 0.01 0.02

Critical Deflections and Radius of Curvature - Service Wind

Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
177.00	(2) 7770.00 w/Mount Pipe	28	32.377	1.5350	0.0015	54506
176.00	(2) RRUS 11 - Dual PA RRU	28	32.056	1.5347	0.0015	54506
165.00	5 s.f. Panel Antenna w/Mount Pipe	28	28.541	1.5181	0.0016	21102
148.00	(2) APX16PV-16PVL w/mount pipe	28	23.259	1.4448	0.0017	10588
137.00	(4) 844G45VTZASX w/Mount Pipe	28	20.006	1.3711	0.0018	8005
127.00	A-ANT-23G-2-C	28	17.204	1.2895	0.0017	6816
125.00	(2) DB980H65T2E-M w/Mount Pipe	28	16.664	1.2717	0.0016	6704
117.00	(2) DB844G45ZAXY w/Mount Pipe	28	14.578	1.1964	0.0015	6293
50.00	GPS	28	2.562	0.4699	0.0003	4556

Section Capacity Table

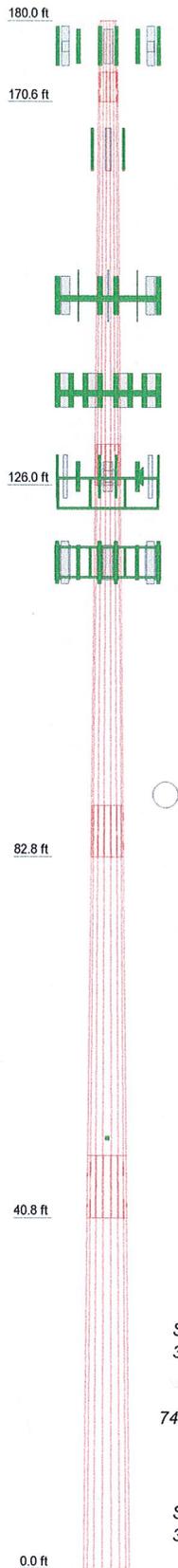
RISATower GPD Associates 520 S. Main St. Akron, Ohio 44313 Phone: (330) 572-2100 FAX: (330) 572-2101	Job	CT5101 (16326) Orange Transfer Station	Page	6 of 6
	Project	2011147.02	Date	11:34:24 01/25/11
	Client	Hudson Design Group	Designed by	aherkenhoff

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	SF*P _{allow} K	% Capacity	Pass Fail	
L1	180 - 170.58	Pole	TP26.25x24x0.1875	1	-1.22	781.07	3.5	Pass	
L2	170.58 - 126	Pole	TP36.525x25.0581x0.25	2	-8.71	1449.60	37.4	Pass	
L3	126 - 82.75	Pole	TP46.357x34.8903x0.3125	3	-20.82	2300.36	70.0	Pass	
L4	82.75 - 40.75	Pole	TP55.765x44.2987x0.375	4	-32.76	3320.24	76.6	Pass	
L5	40.75 - 0	Pole	TP64.75x53.2831x0.4375	5	-50.78	4642.75	74.8	Pass	
							Summary		
							Pole (L4)	76.6	Pass
							RATING =	76.6	Pass

APPENDIX C

Tower Elevation Drawing

Section	1	2	3	4	5
Length (ft)	9.42	48.00	48.00	48.00	48.00
Number of Sides	18	18	18	18	18
Thickness (in)	0.1875	0.2500	0.3125	0.3750	0.4375
Socket Length (ft)	3.42	4.75	6.00	7.25	
Top Dia (in)	24.0000	25.0581	34.8903	44.2987	53.2831
Bot Dia (in)	26.2500	36.5250	46.3570	55.7650	64.7500
Grade			A572-65		
Weight (K)	0.5	4.0	6.5	9.7	13.3



DESIGNED APPURTENANCE LOADING

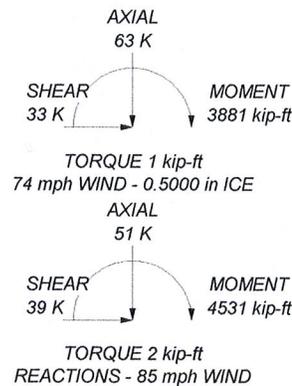
TYPE	ELEVATION	TYPE	ELEVATION
(2) 7770.00 w/Mount Pipe	177	6' x 2" Mount Pipe	148
(2) 7770.00 w/Mount Pipe	177	PIROD 13' Low Profile Platform	148
(2) 7770.00 w/Mount Pipe	177	(4) 844G45VTZASX w/Mount Pipe	137
AM-X-CW-14-65-00T-RET w/ Mount Pipe	177	(4) 844G45VTZASX w/Mount Pipe	137
AM-X-CW-14-65-00T-RET w/ Mount Pipe	177	(4) 844G45VTZASX w/Mount Pipe	137
AM-X-CW-14-65-00T-RET w/ Mount Pipe	177	PIROD 13' Low Profile Platform	137
AM-X-CW-14-65-00T-RET w/ Mount Pipe	177	(2) DB980H65T2E-M w/Mount Pipe	125
6' x 2" Mount Pipe	177	(2) DB980H65T2E-M w/Mount Pipe	125
6' x 2" Mount Pipe	177	(2) DB980H65T2E-M w/Mount Pipe	125
6' x 2" Mount Pipe	177	(2) DB980H65T2E-M w/Mount Pipe	125
(2) 21401 TMA	177	LLPX310R w/ Mount Pipe	125
(2) 21401 TMA	177	LLPX310R w/ Mount Pipe	125
(2) 21401 TMA	177	LLPX310R w/ Mount Pipe	125
(2) 21401 TMA	177	LLPX310R w/ Mount Pipe	125
(2) RRUUS 11 - Dual PA RRU	176	FDD R6 RRH	125
(2) RRUUS 11 - Dual PA RRU	176	FDD R6 RRH	125
(2) RRUUS 11 - Dual PA RRU	176	FDD R6 RRH	125
(2) RRUUS 11 - Dual PA RRU	176	FDD R6 RRH	125
DC6-48-60-18-8F	176	Horizon DUO	125
6' x 2" Mount Pipe	176	Horizon DUO	125
6' x 2" Mount Pipe	176	Horizon DUO	125
6' x 2" Mount Pipe	176	Valmont 13' Platform w/o rails (GPD)	125
5 s.f. Panel Antenna w/Mount Pipe	165	A-ANT-23G-2-C	125
5 s.f. Panel Antenna w/Mount Pipe	165	A-ANT-23G-2-C	125
5 s.f. Panel Antenna w/Mount Pipe	165	(2) DB950F40T2E-M w/Mount Pipe	117
(2) APX16PV-16PVL w/mount pipe	148	(2) LPA-80063/4CF w/ mount pipe	117
(2) APX16PV-16PVL w/mount pipe	148	BXA-70063/4CF w/ mount pipe	117
(2) APX16PV-16PVL w/mount pipe	148	(2) DB950F40T2E-M w/Mount Pipe	117
(2) APX16PV-16PVL w/mount pipe	148	(2) DB950F40T2E-M w/Mount Pipe	117
(2) LGP21401	148	(2) DB844G45ZAXY w/Mount Pipe	117
(2) LGP21401	148	BXA-70063/4CF w/ mount pipe	117
(2) LGP21401	148	(2) DB950F40T2E-M w/Mount Pipe	117
6' x 2" Mount Pipe	148	Valmont 13' Platform w/o rails (GPD)	117
6' x 2" Mount Pipe	148	(2) DB844G45ZAXY w/Mount Pipe	117
		BXA-70063/4CF w/ mount pipe	117
		GPS	50
		2'-0" - STANDOFF	50

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

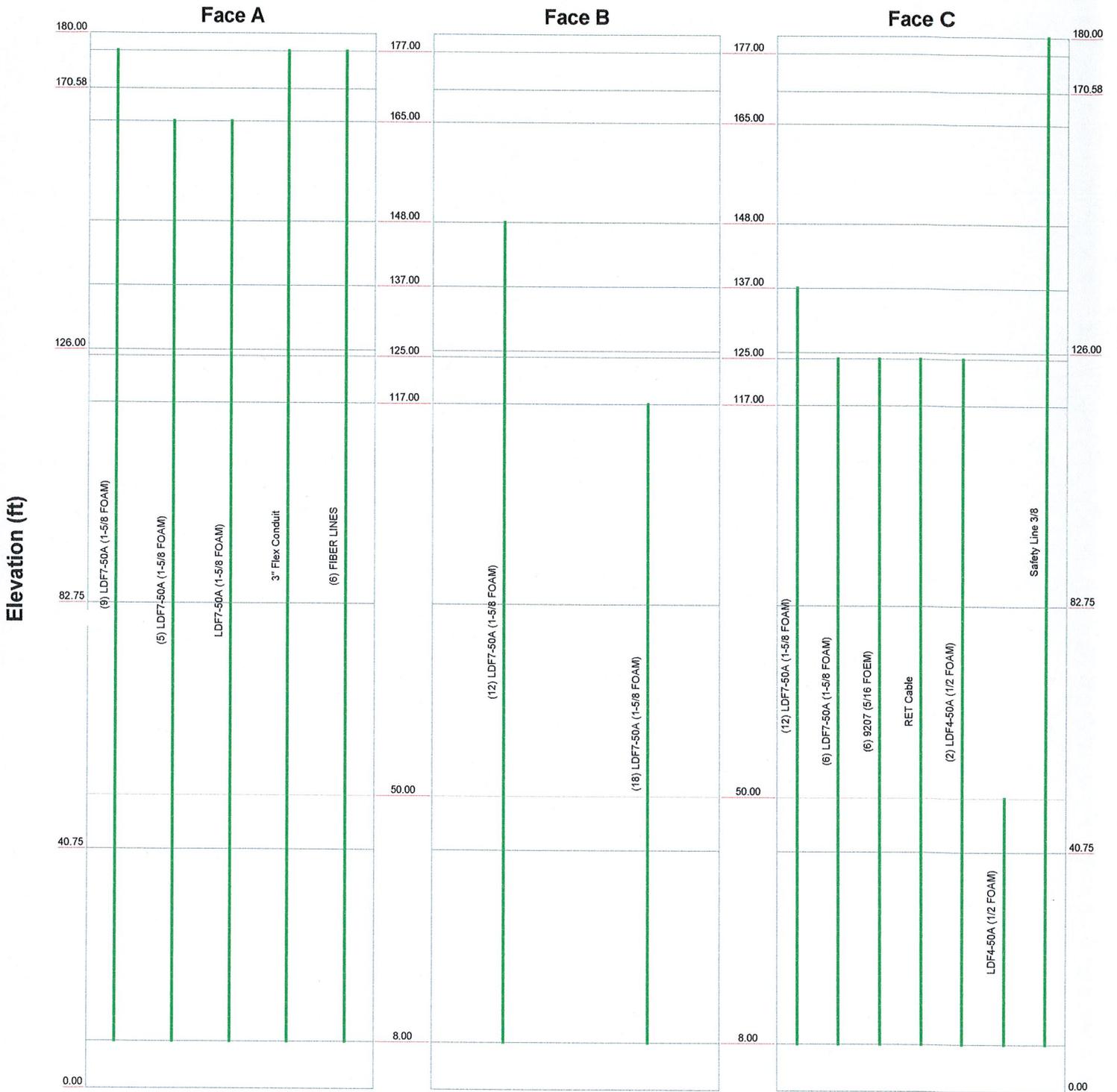
- 1 Tower is located in New Haven County, Connecticut.
- 2 Tower designed for a 85 mph basic wind in accordance with the TIA/EIA-222-F Standard.
- 3 Tower is also designed for a 74 mph basic wind with 0.50 in ice.
- 4 Deflections are based upon a 50 mph wind.
5. TOWER RATING: 76.6%



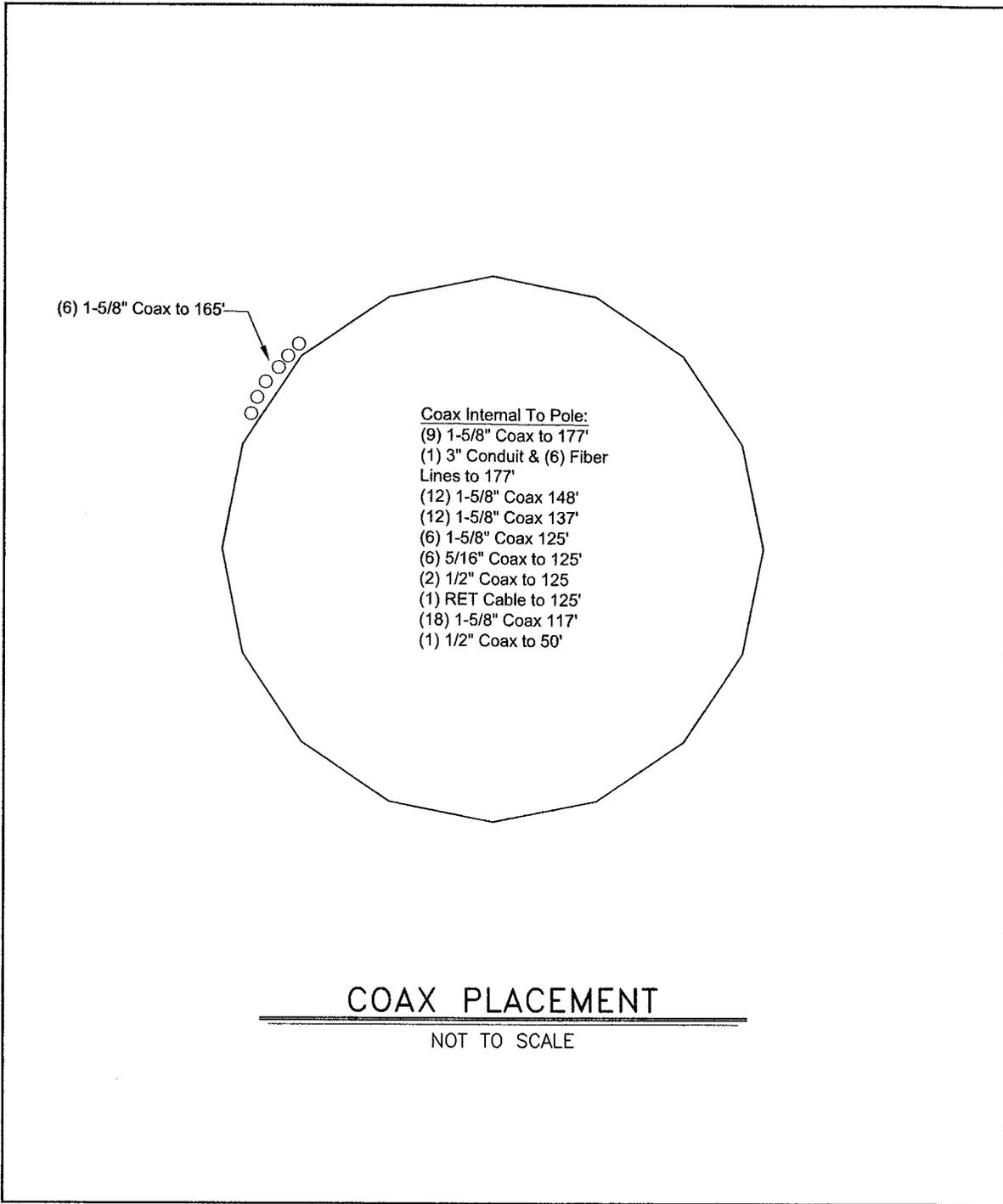
 GPD GROUP Consulting Engineers	GPD Associates 520 S. Main St. Akron, Ohio 44313 Phone: (330) 572-2100 FAX: (330) 572-2101	Job: CT5101 (16326) Orange Transfer Station Project: 2011147.02 Client: Hudson Design Group	Drawn by: aherkenhoff App'd: Date: 01/25/11	Code: TIA/EIA-222-F Scale: NTS Path: N:\2011\2011147\02 CT5101 (16326)\RISA\16326.eti Dwg No. E-1
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Feedline Distribution Chart 0' - 180'

— Round
 — Flat
 — App In Face
 — App Out Face
 — Truss Leg



 GPD GROUP Consulting Engineers	GPD Associates	Job: CT5101 (16326) Orange Transfer Station			
	520 S. Main St. Akron, Ohio 44313		Project: 2011147.02		
	Phone: (330) 572-2100		Client: Hudson Design Group	Drawn by: aherkenhoff	App'd:
	FAX: (330) 572-2101		Code: TIA/EIA-222-F	Date: 01/25/11	Scale: NTS
			Path: N:\2011\2011147\02 CT5101 (16326)\RISA\16326.eif		Dwg No. E-7



COAX PLACEMENT

NOT TO SCALE

SHEET
1 OF 1

CT5101 ORANGE TRANSFER STATION
HUDSON DESIGN GROUP

JOB NO.
2011147.02
DATE
1/25/11

APPENDIX D

Anchor Rod and Base Plate Analysis



Anchor Rod and Base Plate Stresses
CT5101 (16326) Orange Transfer Station
2011147.02

Overturning Moment =	4531.00	k*ft
Axial Force =	51.00	k
Shear Force =	39.00	k

Acceptable Stress	
Ratio =	105.0%

Anchor Rods		
Number of Rods =	20	
Type =	Upset Rod	
Rod Yield Strength (Fy) =	75	ksi
ASIF =	1.333	
Rod Circle =	72	in
Rod Diameter =	2.25	in
Net Tensile Area =	3.25	in ²
Max Tension on Rod =	148.41	kips
Max Compression on Rod =	153.51	kips
Allow. Rod Force =	195.00	kips
Anchor Rod Capacity =	76.1%	OK

Base Plate		
Location =	External	
Plate Strength (F _y) =	60	ksi
Outside Diameter =	77.25	in
Plate Thickness =	2.75	in
wcalc =	31.49	in
wmax =	49.75	in
w =	31.49	in
S =	39.69	in ³
fb =	27.74	ksi
Fb =	60	ksi
Base Plate Capacity =	46.2%	OK

Stiffeners		
Configuration =	None	

Pole		
Pole Diameter =	64.75	in
Number of Sides =	18	
Thickness =	0.4375	in
Pole Yield Strength =	65	ksi

APPENDIX E

Foundation Analysis

PAD DESIGN - Monopole

TOWER REACTIONS

total overturning moment = 4531 Kip-ft
 total shear = 51 Kip
 axial = 39 Kip
 ground water table = Below ft

PAD DIMENSIONS

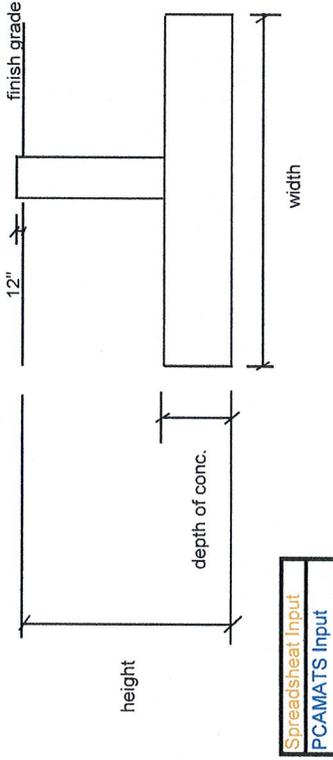
width = 48 ft
 height = 7 ft
 depth of conc = 6 ft
 $\gamma_{soil} = 0.120$ kcf
 $\gamma_{conc} = 0.150$ kcf

$M_r = 57497.87$ k-ft
 $M_{ot} = 4939$ k-ft
 $P = 2389.08$ k
 $W_{wedge} = 1.66$ k
 Allowable Bearing = 6 ksf

LOAD PERPENDICULAR TO PAD

$Q_{MAX} = P/A+M/S = 1.30488498$
 $Q_{MIN} = P/A-M/S = 0.76896918$
 $Q_{MAX} = P/A+M/S = 1.41653411$
 $Q_{MIN} = P/A-M/S = 0.65732006$

$M_x = 3492.401$
 $M_y = 3492.401$
 $e_x = 1.462$
 $e_y = 1.462$
 $e_x/W = 0.030$ ok ($e/W < 1/6$)
 $e_y/W = 0.030$ ok ($e/W < 1/6$)



F.S. OVERTURNING = 11.6416007 ok > 2
 F.S. OVERTURNING / F.S. ALLOWABLE = 17.2%

IF $M/P > width/6$

$Q_{max} = 1.513$ ksf
 $Q_{min} = 0.000$ ksf

$Q_{MAX}/Q_{ALL} = 25.2\%$ OK

$B_1 = 67.61$ ft
 $L_1 = 67.61$ ft

IF $e/W > 1/6$
 $Q_{ALL} = 13715$ kips
 $Q_{MAX} = 3238$ kips
 $Q_{MAX}/Q_{ALL} = 23.6\%$ OK

Verify max pressure in PCAMATS for this load case

Foundation Capacity: 25.2% OK

AM-X-CD-14-65-00T-RET (4' 65° Dual Broadband Antenna)

Dual Band Electrical DownTilt Antenna

698 ~ 894MHz, X-pol., H65° / V17.0°

1710 ~ 2170MHz, X-pol., H65° / V8.5°

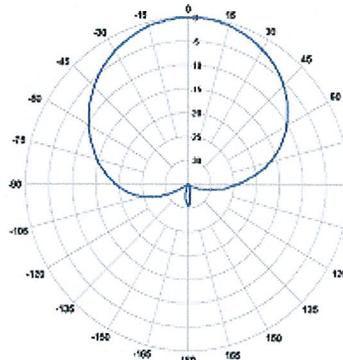
Electrical Specification

Frequency Range	698-894MHz	1710-2170MHz
Impedance	50Ω	
Polarization	Dual, Slant ±45°	
Gain	14.0dBi / 11.85dBd @ 698-806MHz 14.8dBi / 12.65dBd @ 824-894MHz	16.1dBi / 13.95dBd @1710-1755MHz 16.3dBi / 14.15dBd @1850-1900MHz 16.0dBi / 13.85dBd @2110-2155MHz
Beamwidth	Horizontal	60° @ 1710-1755MHz 61° @ 1850-1900MHz 64° @ 2110-2155MHz
	Vertical	8.8° @ 1710-1755MHz 8.5° @ 1850-1900MHz 8.0° @ 2110-2155MHz
VSWR	≤1.5:1	
Front-to-Back Ratio	≥28 dB	
Electrical Downtilt Range	2° ~ 16°	0° ~ 10°
Isolation Between Ports	≥30 dB	
Isolation Between Ports of Different Frequency Elements	≥35 dB	
Cross Pole Discrimination	10.0 dB @ ±60° 15.0 dB @ 0°	
First Upper Side Lobe Suppression	16dB	
Side Lobe Suppression	> 16dB @ 0-6° Tilt > 18dB @ 7-12° Tilt (Up to 15° from Boresight)	> 16dB @ 0-6° Tilt > 18dB @ 7-10° Tilt (Up to 15° from Boresight)
Passive Intermodulation	≤ -150 dBc @ 2x20w	
Input Maximum CW Power	500 W	300 W
Environmental Compliance	IP65 for Radome IP67 for Connectors	
RET Motor Configuration	Field Replaceable RET Electronic Control Module / RET Motor is internal to antenna & not field replaceable	
Compliant with AISG 1.1 and 2.0	AISG 1.1 and 2.0	

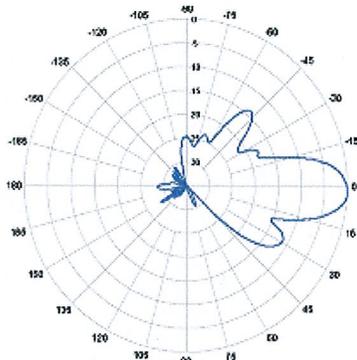
Mechanical Specification

Dimension (WxDxH)	11.8x5.9x48 inches (300x150x1219mm)
Weight (Without clamp)	16.5 kg (36.4 lbs)
Connector	4 x 7/16 DIN(F), Long Neck
Max Wind Speed	150mph
Wind Load (@150 mph)	1260 N

AM-X-CD-14-65-00T-RET (4' 65° Dual Broadband Antenna)

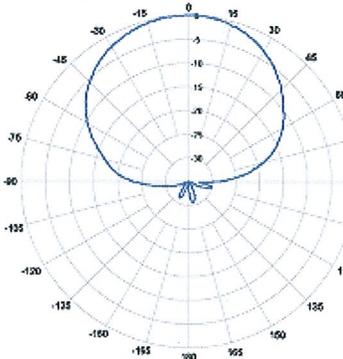


Horizontal Pattern

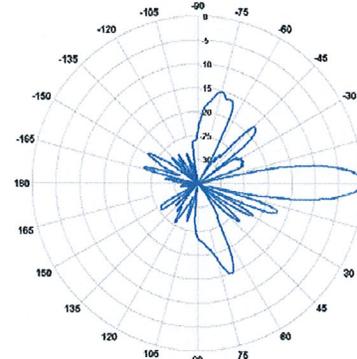


Vertical Pattern (Downtilt 2°)

700MHz band Pattern

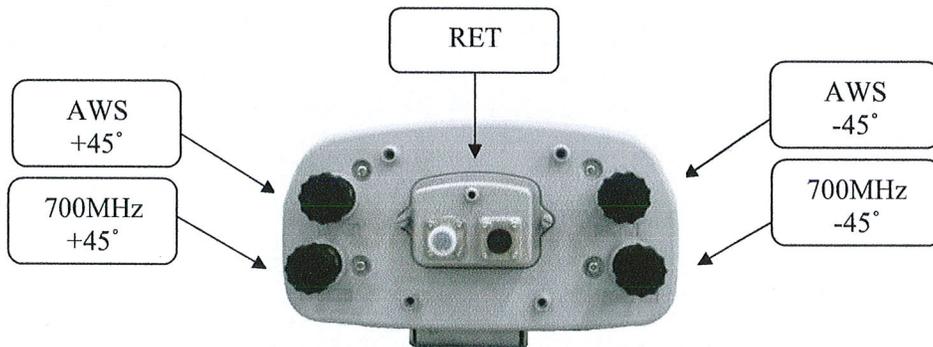


Horizontal Pattern

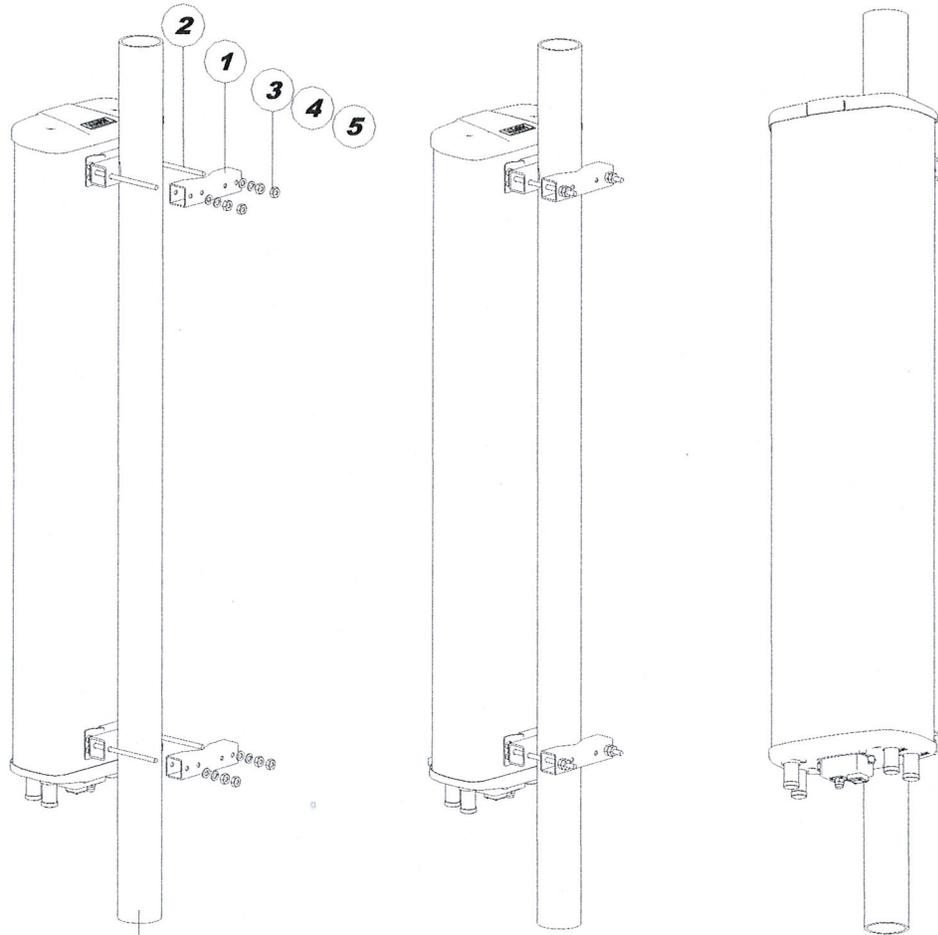


Vertical Pattern (Downtilt 0°)

AWS band Pattern



AM-X-CD-14-65-00T-RET (4' 65° Dual Broadband Antenna)
Antenna Drawings and Installation Diagram



MOUNT POLE
Ø1.97 ~ 3.15inch OD.
(50 ~ 80mm OD.)

STANDARD MOUNTING KITS

No.	PART NAME	Q'TY	Recommending Torque
1	FIXED CLAMP	4	
2	Hex. Cap Bolt, M10	4	17mm Spanner
3	Plain Washer, M10	4	208lbf.inch
4	Spring Washer, M10	4	240kgf.cm
5	Hex. Nut, M10	8	

RRUS 11 – Dual PA RRU.

Technical Data

RBS6000

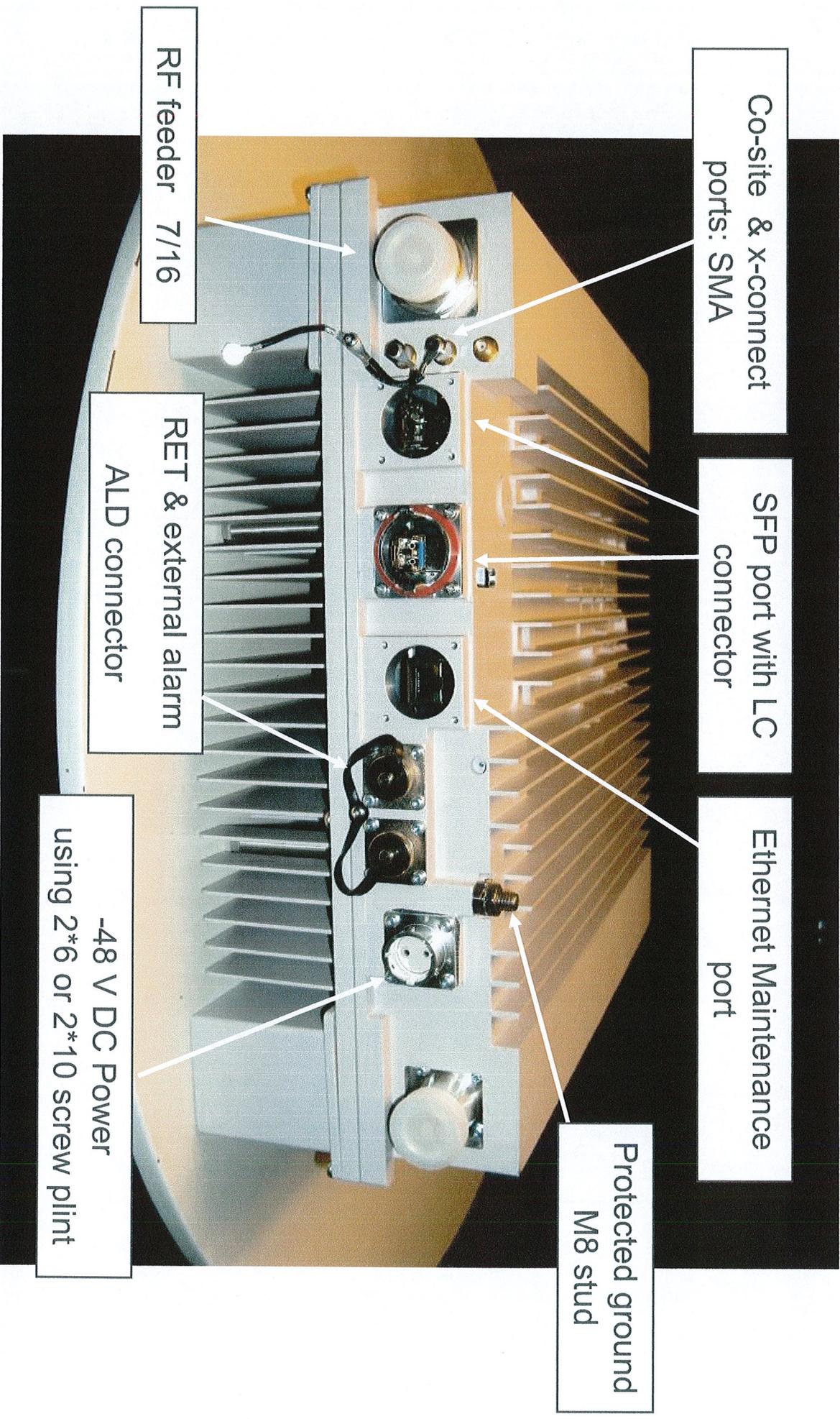
- > Multi standard
- > RF: 2x30 Watts
- > Carrier BW: 1.4 – 20 MHz
- > Alarms: 2
- > Dimensions (with sunshield):
 - Width: 17.0 in
 - Height: 17.8 in
 - Depth: 7.2 in
 - Weight: 55 lbs (Band 12)
 - Weight: 50 lbs (Band 4)
- > Temperature: -40 to +131 F
- > Cooling: Self convection
- > Power: -48 VDC
- > Rec. fuse size 20 Amp
 - Rec. DC cable:
 - > 6 mm² up to 60 meters
 - > 10 mm² over 60 meters
 - > Shielded
- > Power Cons: 200 Watts typ.



RRUS-11 I/F



RBS6000



Co-site & x-connect ports: SMA

SFP port with LC connector

Ethernet Maintenance port

Protected ground M8 stud

-48 V DC Power using 2*6 or 2*10 screw plint

RET & external alarm ALD connector

RF feeder 7/16

POWER

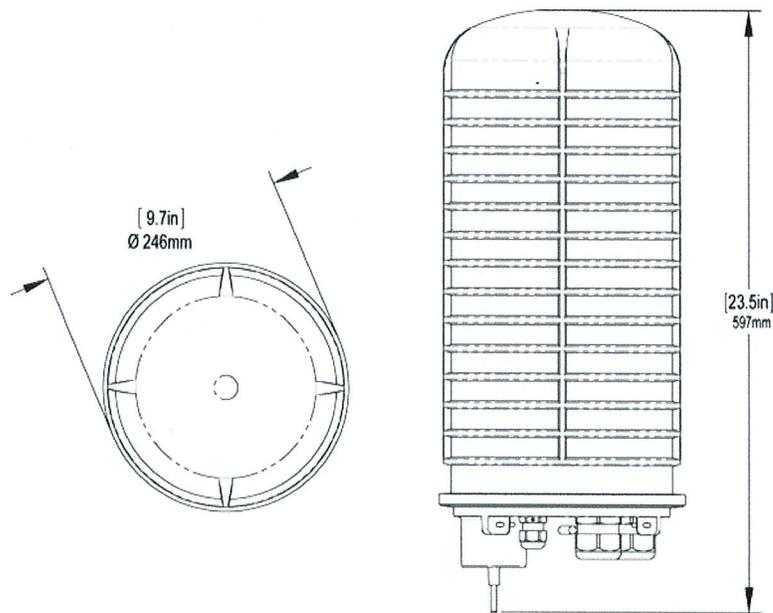
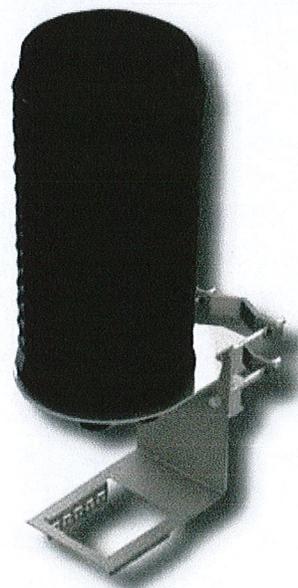
DC6-48-60-18-8F

DC Surge Suppression Solution

The DC6-48-60-18 is a dual chambered, DC surge suppression system for use in multi-circuit, Distributed Antenna Systems. The system will protect up to 6 Remote Radio Heads from voltage surges and lightning, and connect up to 18 fiber pairs. The system is enclosed in a NEMA 4 rated, waterproof enclosure.

FEATURES

- Protects up to 6 Remote Radio Heads, each with its own protection circuit.
- Flexible design allows for installation at the top of a tower for Remote Radio Head protection.
- Includes fiber connections for up to 18 pairs of fiber.
- LED indicators on individual circuits provide visual indication of suppressor status.
- Form 'C' relays allow for remote monitoring of the suppressor status.
- Patented Strikesorb technology provides over 60 kA of surge current capacity per circuit.
- Strikesorb suppression modules are fully recognized to UL 1449-3rd Edition Safety Standard, meeting all intermediate and high current fault requirements to facilitate use in OEM applications.
- Raycap recommends that DC protection system be installed within 2 meters or 6 feet of the radio.
- Dome design is lightweight and aerodynamic providing maximum flexibility for installation on top of towers.



Raycap

DC6-48-60-18-8F

DC Power Surge Protection

Electrical Specifications	
Model Number	DC6-48-60-18-8F
Nominal Operating Voltage	48 VDC
Nominal Discharge Current (I_n)	20 kA 8/20 μ s
Maximum Discharge Current (I_{max}) per NEMA LS-1	60 kA 8/20 μ s
Maximum Continuous Operating Voltage (U_c)	75 VDC
Voltage Protection Rating	400 V

Mechanical Specifications	
Suppression Connection Method	Compression lug, #2-#14 AWG Copper, #2-#12 Aluminum
Fiber Connection Method	LC-LC Single mode duplex
Environmental Rating	IP 68, 7m 72hrs
Operating Temperature	-40° C to + 80° C
Storage Temperature	-70° C to + 80° C
Cold Temperature Cycling	IEC 61300-2-22e -30° C to + 60° C 200 hrs @ 5 psi
Resistance to Aggressive Materials	CEI IEC 61073-2 including acids and bases
UV Protection	ISO 4892-2 Method A Xenon-Arc 2160 hrs
Weight	20 lbs without Mounting Bracket

STANDARDS

Strikesorb modules are compliant to the following Surge Protection Device (SPD) Standards:

- ANSI/UL 1449 - 3rd Edition
- IEEE C62.41
- NEMA LS-1, IEC 61643-1:2005 2nd Edition:2005
- IEC 61643-12
- EN 61643-11:2002 (including A11:2007)



Raycap

G02-00-068 REV 050610



GS-07F-0435V



Certified to
ISO 9001:2000



TUV Rheinland
of North America



New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 463-5511
Fax: (860) 513-7190

Douglas L. Culp
Real Estate Consultant

February 22, 2011

Honorable James Zeoli
1st Selectman, Town of Orange
Orange Town Hall
617 Orange Center Road
Orange, CT 06477

Re: Telecommunications Facility – 617 South Orange Center Road Orange, CT

Dear Mr. Zeoli:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System (“UMTS”) and Long Term Evolution (“LTE”) capabilities, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC (“AT&T”) will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies (“R.C.S.A.”) Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review AT&T’s proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter to the Siting Council fully describes Cingular’s proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council’s procedures; please call me at (860) 463-5511 or Ms. Linda Roberts, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Douglas L. Culp
Real Estate Consultant

Enclosure